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NPIC/TSSG/RED-1810-69  
18 September 1969

MEMORANDUM FOR: Chief, Engineering Support Division

ATTENTION : TICOF Coordinator

SUBJECT : Request for Support -- Split Format [ ] 940 Master  
Series (MIM-4) Light Table Brightness Survey

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1. Preliminary Phase II TICOF data analyses indicate that the TICOF interpreter who was provided with a MIM-4 Light Table operated the table at or near maximum brightness (in excess of 2500 foot lamberts) virtually 100% of total use-time. Such results are at odds with previous TICOF findings obtained on standard [ ] light tables -- lower brightness levels were preferred to higher levels.

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2. The RED Light Table development program relies heavily on data such as was collected in TICOF. While a number of hypotheses may be formulated to "explain" the Phase I & II brightness discrepancies, each would be limited by the possibility that the Phase II information was due solely to the idiosyncrasies of a single interpreter; i.e., the data base is too small. Such data, quite obviously, is of little value to the RED without further indications of its reliability and validity.

3. The request is therefore made that the ESD initiate a table brightness survey to expand upon the TICOF findings. Specifically, it is requested that the ESD select a representative sample of standard and split-format tables (perhaps 30 of each type) and systematically determine the brightness of each under operational conditions. The RED is interested in two types of data: the brightness level at which each table is set during "typical" readout operations; the maximum brightness capability of each.

4. If the ESD agrees to support this request, [ ] will be available to discuss the specifics of the survey with appropriate ESD personnel.

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Chief, Research & Engineering Division,  
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